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Abstract

An ultrasound method and system are provided for producing three dimensional images. During an imaging session, a transducer, in response to a transmit beamformer, transmits ultrasonic energy at a first frequency band into a subject. The subject may be kept free of added ultrasound contrast agent throughout the entire imaging session. A receive beamformer receives ultrasonic echo information associated with the transmitted ultrasonic energy. Information signals associated with a second frequency band, such as a harmonic frequency band, are obtained from the echo information. A three-dimensional reconstruction is formed or a volume quantity is calculated in response to the information signals. The transmission of ultrasonic energy may also include energy focused along an elongated high power region or a line focus.